

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/899,632	07/05/2001	John Philip Bolash	2001-0511	5129	
21972	7590 01/26/2004		EXAMINER		
LEXMARK INTERNATIONAL, INC.			STOCK JR, GORDON J		
	JAL PROPERTY LAW EW CIRCLE ROAD	ART UNIT	PAPER NUMBER		
BLDG. 082-1		2877			
LEXINGTON	, KY 40550-0999		DATE MAILED: 01/26/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

Applicantion No. Applicant(s) Ap	•		3			Μ.
Examiner Gordon J Stock -The MAILING DATE of this communication appears on the cover sheet with the correspondence addrass Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Exercision of time may be activated used in the presence of 37 CFR 1.135(e). In or event, however, may a recyb te timely lided If the period for only specified above, the numbers of 37 CFR 1.135(e). In or event, however, may a recyb te timely lided If the period for only specified above, the numbers of 37 CFR 1.135(e). In or event, however may a recyb te timely lided If the period for only specified above, the numbers of 37 CFR 1.135(e). If the period for only specified above, the numbers of the statistic prescription of the specified above, the numbers of the statistic prescription of the specified above, the numbers of the statistic prescription of the specified above, the numbers of the statistic prescription of the specified above, the numbers of the statistic prescription of the specified above the statistic prescription of the specified above the statistic prescription of the specified above the specified above the specified above. The specified above the specifi			Applic	ation No.	Applicant(s)	ME
Ordon J Stock Ordon		Office Action C	09/899	9,632	BOLASH ET AL.	
- The MALING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Exensions of the may be a switching and 3 of ZFR 1.136(a). In no word, however, may a reply be limity filed If the period for reply specified above is loss than flaty (30) says, a reply within the statisticy minimum of thinty (30) says will be considered linely. If the period for reply specified above is loss than flaty (30) says, a reply within the statisticy minimum of thinty (30) says will be considered linely. If the period for reply specified above is loss than flaty (30) says, a reply within the statisticy minimum of thinty (30) says will be considered linely. If the period for reply specified above is loss than flaty (30) says, a reply within the statisticy minimum of thinty (30) says will be considered linely. If the period for reply specified above is loss than flaty (30) says, and provided the statistics of the sta		Oπice Action Summary	Examir	ner	Art Unit	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILLING DATE OF THIS COMMUNICATION. Ederations of time may be available unsure the processors of 37 CFR 1.13(p). In no event, however, may a reply be timely tiled after 5X (6) MONTHS from the mailing date of this communication. If the period trends yearing the considerable and the communication is the period of the communication in the period of the communication is the period of the communication. If the period trends yearing the trends is the thin there means after the number of the communication is the period of the communication in the period of the communication is the period of the communication in the period of the communication is the period of the communication in the period of the communication is the period of the communication in the period of the communication is the period of the communication in the period of the communication is the period of the communication in the period of the communication is the period of the period of the communication is objected in the period of the communication is objected to not period of the communication is objected to period of the communication is objected to be the examiner. On the processor of the prioridy documents have been received. Claim(s) 1.15.17-20.23 and 24 is/are rejected. The period of the period of the prioridy documents have been received in the period of t						
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 37 CPR 1.13(6). In no event, however, may a reply be timely filed state 13 (5) MCMTHS from the mailing date of this communication. It is a state 13 (5) MCMTHS from the mailing date of this communication. If the part of the part	Period fo	- The MAILING DATE of this commu r Reply	nication appears on	the cover sheet v	vith the correspondence addres	:S
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 22 and 25 is/are allowed. 6) Claim(s) 1-15.17-20.23 and 24 is/are rejected. 7) Claim(s) 1-15.17-20.23 and 24 is/are rejected. 7) Claim(s) 1-15.17-20.23 and 24 is/are rejected. 7) Claim(s) 1-15.17-20.23 and 24 is/are objected to. 8) Claim(s) 1-15.17-20.23 and 24 is/are rejected. 7) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some of Olymon of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in Application Ton. 3. Copies of the certified copies of the priority documents have been received. 13. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s) 14. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific r	THE N - Exten after S - If the - If NO - Failun - Any re	MAILING DATE OF THIS COMMUN sions of time may be available under the provision BIX (6) MONTHS from the mailing date of this con period for reply specified above is less than thirty period for reply is specified above, the maximum e to reply within the set or extended period for rep eply received by the Office later than three months	NICATION, as of 37 CFR 1.136(a). In no amunication. (30) days, a reply within the s statutory period will apply and by will, by statute cause the	event, however, may a statutory minimum of th d will expire SIX (6) MO application to become A	reply be timely filed inty (30) days will be considered timely. NTHS from the mailing date of this commu. RANDONED (35.U.S.C. 8.133)	nication.
3 Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 22 and 25 is/are allowed. 6) Claim(s) 1-15.17-20.23 and 24 is/are rejected. 7) Claim(s) 16 and 21 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) MI b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Altachment(s) 14) Notice of References Cited (PTO-982) 2) Notice of References Cited (PTO-982) 5) Notice of Informal Patent Application (PTO-152)	1)⊠	Responsive to communication(s) fi	led on <u>10/20/03</u> .			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-25 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 22 and 25 is/are allowed. 6) Claim(s) 1-15.17-20.23 and 24 is/are rejected. 7) Claim(s) 1-15.17-20.23 and 24 is/are rejected. 7) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Altachment(s) 14) Notice of References Cled (PTO-892) 2) Notice of Informal Patent Application (PTO-152)	2a) <u></u> □	This action is FINAL .	2b)⊠ This action is	non-final.		
4)						rits is
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) 22 and 25 is/are allowed. 6) □ Claim(s) 1-15.17-20.23 and 24 is/are rejected. 7) □ Claim(s) 16 and 21 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * o) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No. 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. A) □ The translation of the foreign language provisional application has been received. 14) □ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.	Dispositio	on of Claims				
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the crtified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)	5)⊠ 6)⊠ 7)⊠	ta) Of the above claim(s) is/Claim(s) <u>22 and 25</u> is/are allowed. Claim(s) <u>1-15,17-20,23 and 24</u> is/a Claim(s) <u>16 and 21</u> is/are objected	are withdrawn from or rejected.			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152)				•		
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152)	9)[]]	The specification is objected to by t	he Examiner.			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Altachment(s) Notice of References Cited (PTO-892) Divide of Draftsperson's Patent Drawing Review (PTO-948) 5 Notice of Informal Patent Application (PTO-152)	•			b) objected to	by the Examiner.	
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. §§ 119 and 120 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) ☐ The translation of the foreign language provisional application has been received. 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)		Applicant may not request that any obj	ection to the drawing(s	s) be held in abeya	nce. See 37 CFR 1.85(a).	
Priority under 35 U.S.C. §§ 119 and 120 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)		Replacement drawing sheet(s) includir	ng the correction is req	uired if the drawing	g(s) is objected to. See 37 CFR 1.	121(d).
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	11) 🔲 🛚	The oath or declaration is objected	to by the Examiner.	Note the attache	d Office Action or form PTO-1	52.
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)	Priority u	nder 35 U.S.C. §§ 119 and 120				
reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152)	a) [* Si 13)	All b) Some * c) None of: 1. Certified copies of the priorit 2. Certified copies of the priorit 3. Copies of the certified copies application from the Internati ee the attached detailed Office acti cknowledgment is made of a claim nce a specific reference was includ CFR 1.78.	y documents have by documents have by documents have be of the priority documental Bureau (PCT Ron for a list of the cefor domestic priority ed in the first senten	een received. een received in a ments have been tule 17.2(a)). ertified copies no under 35 U.S.C ce of the specific	Application No In received in this National Stag t received. It solves to a provisional apposation or in an Application Data	olication)
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152)	14) 🗌 A	cknowledgment is made of a claim	for domestic priority	under 35 U.S.C	. §§ 120 and/or 121 since a sp	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152)	Attachment	· (s)				
	1) 🔀 Notice 2) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (5) D Notice of		

Art Unit: 2877

DETAILED ACTION

1. The amendment received on October 20, 2003 has been entered into the file.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 2-4, 7-9, 23, and 24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "DO to D1"/"DO to an amount D1" in claims 2, 7, 23, and 24 is a relative term which renders the claim indefinite. The term "DO to D1"/"DO to an amount D1" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. "DO to D1"/"DO to an amount D1" renders the degree of light strength signal increase indefinite. Claims 3-4, 8, and 9 are rejected for depending upon rejected base claims.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 5, 6, 10-13, 18-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Walker et al. (6,561,643).

As for claims 1, 5, 6, 10-13, 18-20, Walker discloses in an advanced media determination system for inkjet printing: a media type detector comprising: a light source; a specular light sensor, a first light sensor, wherein the first light sensor has a higher light flux capability compared to the specular light sensor; and a determination unit to determine a media type based on a signal ratio of a detected specular light sensor intensity and a detected first light sensor intensity; whereas, gloss is measured; wherein an aperture, a field stop, accomplishes the higher flux capability and the field stop of the specular light sensor is smaller than the aperture of the first light sensor (Figs. 21 and 29; col. 28, lines 45-67; col. 29, lines 1-45; col. 36, lines 1-67). Figure 21 suggests that the sensors and the light source are at approximately equal radii. As for measuring a plurality of intensities, Figure 21 shows many light beams entering the two sensors. The measuring is performed prior to a picking of the media (Figs. 25-29).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over Walker et al. (6,561,643) in view of Snail (4,815,858) and Howarth (4,319,847).

As for claim 14, Walker discloses everything as above (see claim 13). In addition, Figure 21 has the sensors comprising semicircular cavities. Both Snail and Howarth teach a

Art Unit: 2877

semicircular arrangement for reflectometry and measuring properties of a sheet (Fig. 2 of Snail; Fig. 2 of Howarth). Therefore, it would be obvious to one skilled in the art to have the detector comprise a semicircular cavity, for semicircular cavities are used in reflectometry and measuring properties of sheets.

8. Claims 15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walker et al. (6,561,643) in view of Howarth (4,319,847) and Hashimoto (5,764,251).

As for claims 15 and 17, Walker discloses a specular light sensor; a first light sensor, wherein the first light sensor has a higher flux capability compared to the specular light sensor, a signal ratio of a detected specular light sensor intensity and the detected first light sensor signal is determinative of a media type of the media; an aperture of the first light sensor is larger than the aperture of the specular light sensor (Figs. 21 and 29; col. 28, lines 45-67; col. 29, lines 1-45; col. 36, lines 1-67). As for a linear characteristic range of the sensor, Walker is silent. Howarth teaches that for measuring characteristics of media proper selection of the spectral response of the detector must be accomplished (col. 3, lines 35-40). Hashimoto in a medium discriminating device teaches that a detector's type of linear response is characteristic of a medium (Fig. 3). Therefore, it would be obvious to one skilled in the art the signal's intensity would fall within a linear characteristic range of the light sensor, for media produce differing linear signal responses upon illumination.

Allowable Subject Matter

9. Claims 2-4, 7-9, 23, and 24 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Art Unit: 2877

Claims 16 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 22 and 25 are allowed.

As to **claim 2**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media manipulation apparatus "wherein, if a signal of said detected first light sensor intensity falls within the non-linear region of the sensor characteristic curve of the first light sensor, the determination bases the media type determination on the detected specular light sensor intensity, the first light sensor signal detected after said detected first light intensity, and a ratio," in combination with the rest of the limitations of **claims 2-4.**

As to **claim** 7, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media manipulation apparatus "wherein, if a signal of said detected first light sensor intensity falls within the non-linear region of the sensor characteristic curve of the first light sensor, the determination bases the media type determination on the detected specular light sensor intensity, the first light sensor signal detected after said detected first light intensity, and a ratio," in combination with the rest of the limitations of **claims** 7-9.

As to claim 16, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media type detector "if the detected first light sensor signal does not fall within the linear characteristic range of the first light sensor, to control an increasing of a strength of a light source performing the illumination of the media until a signal of the first light sensor detected, after said detection of the first light sensor intensity, either falls within the linear

Art Unit: 2877

characteristic range of the first light sensor or the strength of the light source reaches a maximum," in combination with the rest of the limitations of claim 16.

As to claim 21, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media type detection method "basing the determination of the media type on an extrapolation of the first light sensor intensity by projecting a signal representative of the first light sensor intensity onto a linear region of a characteristic curve of the first light sensor and by determining a signal ratio of the specular light sensor intensity and the projected first light sensor signal, if it is determined that the first light sensor signal falls within a non-linear region of the first light sensor characteristic curve," in combination with the rest of the limitations of claim 21.

As to claim 22, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a media type detection method determining if one of the first and second light intensities does not fall within a linear region of a characteristic curve of a light sensor, in combination with the rest of the limitations of claims 22-25.

Response to Arguments

10. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Fax/Telephone Numbers

If the applicant wishes to send a fax dealing with either a proposed amendment or a discussion with a phone interview, then the fax should:

- 1) Contain either a statement "DRAFT" or "PROPOSED AMENDMENT" on the fax cover sheet; and
 - 2) Should be unsigned by the attorney or agent.

Art Unit: 2877

This will ensure that it will not be entered into the case and will be forwarded to the examiner as quickly as possible.

Papers related to the application may be submitted to Group 2800 by Fax transmission. Papers should be faxed to Group 2800 via the PTO Fax machine located in Crystal Plaza 4. The form of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CP4 Fax Machine number is: (703) 872-9306

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gordon J. Stock whose telephone number is (703) 305-4787. The examiner can normally be reached on Monday-Friday, 10:00 a.m. - 6:30 p.m.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

gs

January 11, 2004

andra V. Smith

Page 7

Primary Examiner
Art Unit 2877